

Instruments for preparing independent kungfu environment

1. yum install rpm-build
2. yum install numactl
3. commands of install log4cplus [<https://github.com/log4cplus/log4cplus>]:

```
git clone https://github.com/log4cplus/log4cplus.git
```

```
cd log4cplus/
```

```
mkdir build
```

```
cd build
```

```
cmake ..
```

```
make
```

```
make install
```

add LD_LIBRARY_PATH for all users

The cleanest way to add a library to the search path is by adding a file to

/etc/ld.so.conf.d/

suppose log4cplus is installed in /usr/local/lib, run :

echo "/usr/local/lib" >> /etc/ld.so.conf.d/log4cplus-2.0.so.conf

my log4cplus is installed in /usr/local/lib64, run :

echo "/usr/local/lib64" >> /etc/ld.so.conf.d/log4cplus-2.0.so.conf

load the new configuration, run the following command as root:

ldconfig -v

4. guide of install pid-2.1.1:

yum install python-nose

curl "https://bootstrap.pypa.io/get-pip.py" -o "get-pip.py"

python get-pip.py

pip -V

pip install pid

5. install supervisor

install dependency meld3 (yum install python-meld3)

yum install python-meld3

I meet no package python-meld3 available error, and run 'yum update',

#you may not need it

pip install meld3

pip install supervisor

6. guide of install cmake-[3.8.*]:

wget <https://cmake.org/files/v3.11/cmake-3.11.3.tar.gz>

tar zxvf cmake-3.11.3.tar.gz

cd cmake-3.11.3/

./bootstrap

make

make install

cmake -version

7. guide of install boost-1.62:

#there is no python in it, you need reference :

#<https://blog.csdn.net/majianfei1023/article/details/46781581>

sudo yum install python-devel

mkdir /opt/kungfu/

mkdir /opt/kungfu/toolchain

mkdir /opt/kungfu/toolchain/boost-1.62.0

./bootstrap.sh --prefix=/opt/kungfu/toolchain/boost-1.62.0

sudo ./b2 --with-python --prefix=/opt/kungfu/toolchain/boost-1.62.0 install

#there is /usr/lib64/libpython2.7.so, but we need libpython.so, run this

command to make a soft link:

cd /usr/lib64

ln -s libpython2.7.so.1.0 libpython.so

#maybe need a reload:

ldconfig -v

8. guide of install rfoo [<https://github.com/aaiyer/rfoo>]:

#looks rfoo requires python, so I run it after boost.python installed.

git clone <https://github.com/aaiyer/rfoo.git>

cd rfoo/

#install dependency Cython first

pip install Cython

sudo python setup.py install

9. compiling kungfu and install kungfu

git clone <https://github.com/taurusai/kungfu.git>

cd kungfu

mkdir build

cd build

cmake..

make

make package

yum install kungfu-0.0.5-Linux.rpm

10. Congratulations

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